IN THE CLAIMS

 (Currently amended) A method for decoding a received sequence of symbols of a frame using a turbo decoding process that comprises a plurality of decoder iterations, the method comprising:

determining whether a pre-determined decoder termination threshold metric has been met;

identifying frames for use in further processing, if the threshold metric has been met but only after a pre-determined maximum number of decoder iterations;

only if the threshold metric has been met, determining whether a decoder termination test based on a cyclic redundancy check code has been passed; and

only if the cyclic redundancy check test has been passed, terminating the decoder iterations.

- (Original) A method according to claim 1, wherein determining whether the
 threshold metric has been met comprises determining whether a cross-entropy between a
 distribution of log-likelihood ratios for each decoder iteration is less than a pre-determined crossentropy threshold.
- (Original) A method according to claim 1, wherein determining whether the threshold metric has been met comprises using a sign change ratio to monitor convergence of the decoding process.

- (Original) A method according to claim 1, wherein determining whether the threshold metric has been met comprises using a sign difference ratio to monitor convergence of the decoding process.
- (Original) A method according to claim 1, wherein determining whether the threshold metric has been met comprises using a hard-decision aided test.
- (Original) A method according to claim 1, wherein determining whether the threshold metric has been met comprises using an average absolute log-likelihood ratio.
- 7. (Original) A method according to claim 1, wherein determining whether the threshold metric has been met comprises determining whether an absolute value of a smallest log-likelihood ratio is above a pre-determined absolute value threshold.
- (Original) A method according to claim 1, further comprising receiving the sequence of symbols from a parallel turbo encoder.
- (Original) A method according to claim 1, further comprising receiving the sequence of symbols from a serial turbo encoder.
- (Original) A method according to claim 1, further comprising receiving the sequence of symbols from a transmitter comprising an encoder and a modulator.

 (Original) A method according to claim 1, wherein the method comprises decoding symbols in a wireless cellular system.

12. (Original) A method according to claim 11, wherein the wireless cellular system

comprises a W-CDMA transmitter and a W-CDMA receiver.

13. (Currently amended) An apparatus for decoding a received sequence of symbols

of a frame using a turbo decoding process that comprises a plurality of decoder iterations, the

apparatus comprising:

a threshold metric processor for determining whether a pre-determined decoder

termination threshold metric has been met;

a maximum iteration processor for identifying frames for use in further processing, if the

threshold metric has been met but only after a pre-determined maximum number of decoder

iterations iteration;

a cyclic redundancy check processor for determining, only if the threshold metric

processor determines that the threshold metric has been met, whether a decoder termination test

based on a cyclic redundancy check code has been passed; and

a decoder termination means for terminating the decoder iterations, only if the cyclic

redundancy check test has been passed.

14. (Original) An apparatus according to claim 13, wherein the threshold metric

processor comprises means for determining whether a cross-entropy between a distribution of

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log-likelihood ratios for each decoder iteration is less than a pre-determined cross-entropy threshold.

- 15. (Original) An apparatus according to claim 13, wherein the threshold metric processor comprises means for using a sign change ratio to monitor convergence of the decoding process.
- 16. (Original) An apparatus according to claim 13, wherein the threshold metric processor comprises means for using a sign difference ratio to monitor convergence of the decoding process.
- 17. (Original) An apparatus according to claim 13, wherein the threshold metric processor comprises means for using a hard-decision aided test to monitor convergence of the decoding process.
- 18. (Original) An apparatus according to claim 13, wherein the threshold metric processor comprises means for using an average absolute log-likelihood ratio to determine whether the threshold metric has been met.
- 19. (Original) An apparatus according to claim 13, wherein the threshold metric processor comprises means for determining whether an absolute value of a smallest log-likelihood ratio is above a pre-determined absolute value threshold.

- (Original) An apparatus according to claim 13, further comprising means for receiving the sequence of symbols from a parallel turbo encoder.
- 21. (Original) An apparatus according to claim 13, further comprising means for receiving the sequence of symbols from a serial turbo encoder.
- (Original) An apparatus according to claim 13, further comprising means for receiving the sequence of symbols from a transmitter comprising an encoder and a modulator.
- (Original) An apparatus according to claim 13, wherein the apparatus comprises a wireless cellular system.
- (Original) An apparatus according to claim 23, wherein the apparatus comprises a W-CDMA transmitter and a W-CDMA receiver.
- (Previously Presented) A computer program product provided on a computerreadable medium and comprising program code means adapted to control the method of claim 1.